

- 24 -

ABSTRACT

The invention relates to a bioreactor as well as a method for cultivating organic material, in particular cells, by means of a nutrient medium. For an intensive cultivation of the organic material in a simple and reliable handling a flow generating device is provided in the bioreactor according to the invention, by means of which the nutrient medium can be put into a flow, wherein a receiving device is arranged in the flow that is adapted for receiving and/or retaining the organic material and wherein the receiving device that is adapted for passing through the flowing nutrient medium is permeable.

The method in accordance with the invention is characterized in that the nutrient medium is at least temporarily put into a flow, that the organic material, in particular cells, is retained in or at a receiving device, which is permeable to the nutrient medium and that the nutrient medium is passed through the receiving device.